

Appendix I: Test Data for E-UTRA Band 13

Product Name: POS Terminal

Trade Mark: SmartPeak

Test Model: P500

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	51.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

I.1 Conducted Output Power

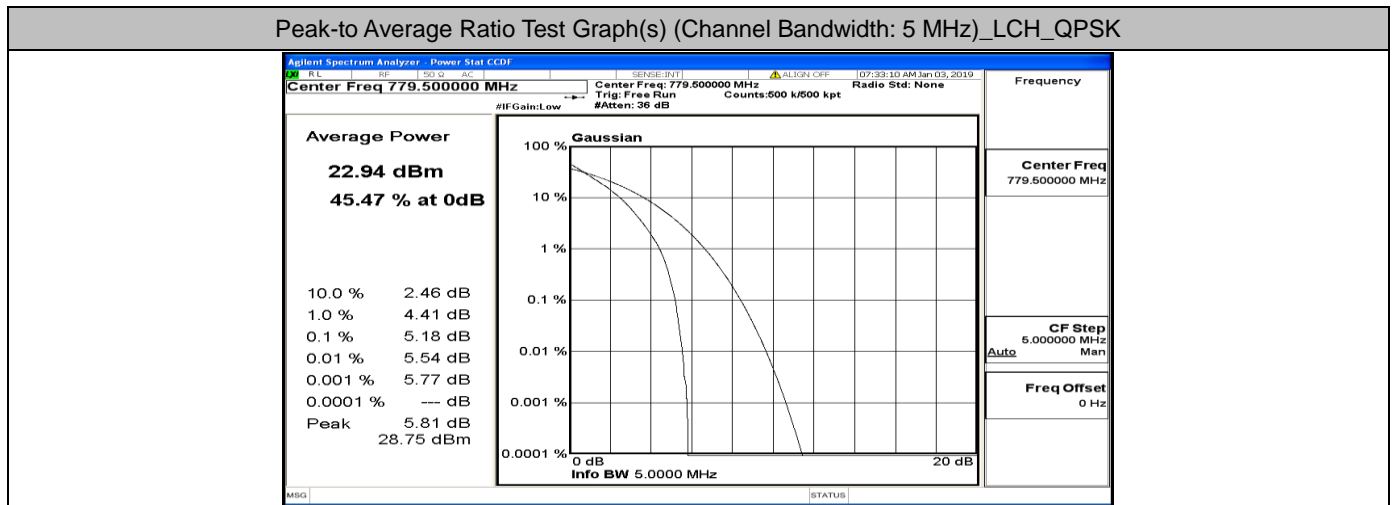
Conducted Output Power Test Result (Channel Bandwidth: 5 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]		Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	24.22	23.74	PASS
		1	12	24.25	23.75	PASS
		1	24	24.38	23.87	PASS
		12	0	23.54	22.72	PASS
		12	6	23.48	22.64	PASS
		12	13	23.38	22.56	PASS
		25	0	23.52	22.58	PASS
	MCH	1	0	24.54	23.79	PASS
		1	12	24.56	23.11	PASS
		1	24	24.80	23.68	PASS
		12	0	23.53	22.52	PASS
		12	6	23.34	22.33	PASS
		12	13	23.45	22.41	PASS
		25	0	23.44	22.48	PASS
	HCH	1	0	24.46	23.86	PASS
		1	12	24.47	23.71	PASS
		1	24	24.77	23.74	PASS
		12	0	23.50	22.69	PASS
		12	6	23.56	22.75	PASS
		12	13	23.57	22.83	PASS
		25	0	23.49	22.79	PASS

Conducted Output Power Test Result (Channel Bandwidth: 10 MHz)						
Modulation	Channel	RB Configuration		Average Power [dBm]	Average Power [dBm]	Verdict
		Size	Offset	QPSK	16QAM	
QPSK / 16QAM	LCH	1	0	24.30	23.87	PASS
		1	24	24.30	23.84	PASS
		1	49	24.34	23.87	PASS
		25	0	23.58	22.52	PASS
		25	12	23.41	22.35	PASS
		25	25	23.47	22.41	PASS
		50	0	23.47	22.40	PASS
	MCH	1	0	24.44	23.82	PASS
		1	24	24.44	23.81	PASS
		1	49	24.49	23.85	PASS
		25	0	23.63	22.48	PASS
		25	12	23.47	22.39	PASS
		25	25	23.44	22.39	PASS
		50	0	23.54	22.48	PASS
	HCH	1	0	24.33	23.79	PASS
		1	24	24.39	23.84	PASS
		1	49	24.45	23.88	PASS
		25	0	23.60	22.53	PASS
		25	12	23.45	22.26	PASS
		25	25	23.51	22.22	PASS
		50	0	23.47	22.51	PASS

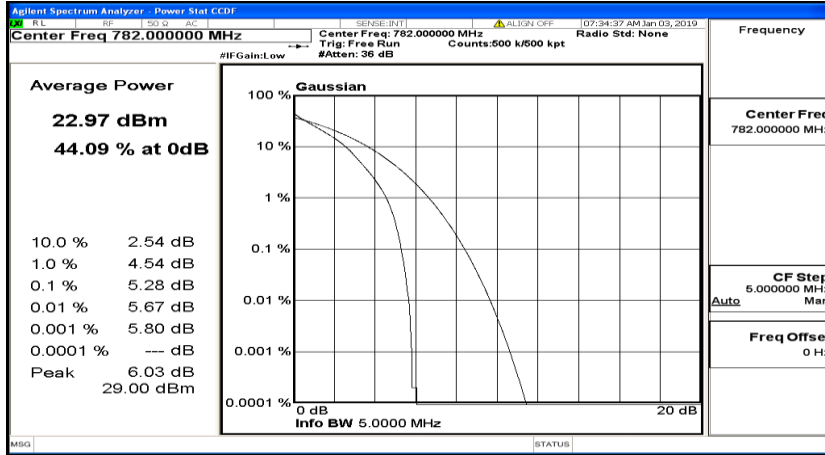
I.2 Peak-to-Average Ratio

Peak-to Average Ratio Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.18	<13	PASS
	MCH	5.28	<13	PASS
	HCH	5.46	<13	PASS
16QAM	LCH	6.01	<13	PASS
	MCH	6.16	<13	PASS
	HCH	6.32	<13	PASS

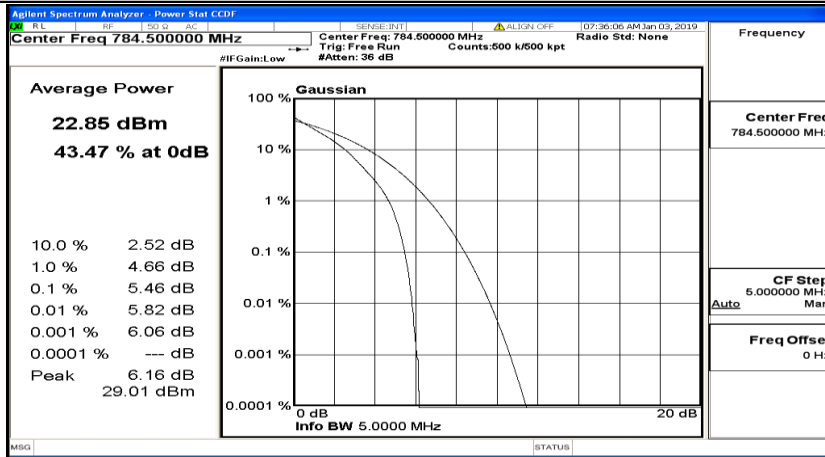
Peak-to Average Ratio Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Peak-to-Average Ratio [dB]	Limit [dB]	Verdict
QPSK	LCH	5.3	<13	PASS
	MCH	5.28	<13	PASS
	HCH	5.25	<13	PASS
16QAM	LCH	6.12	<13	PASS
	MCH	6.12	<13	PASS
	HCH	6.12	<13	PASS



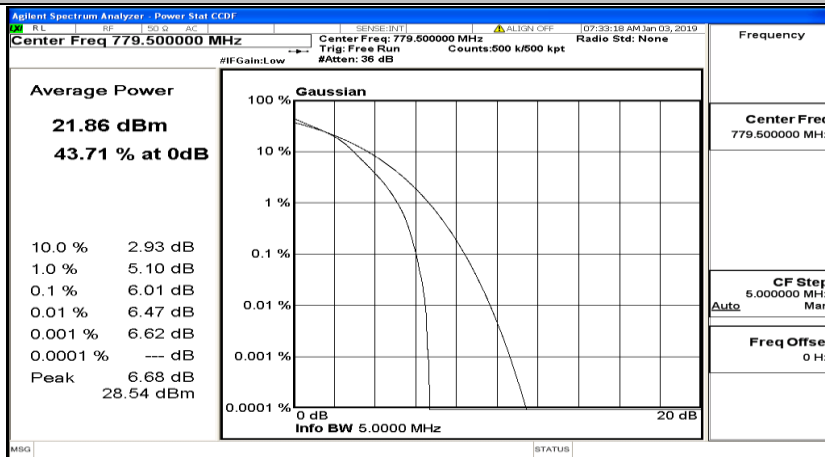
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



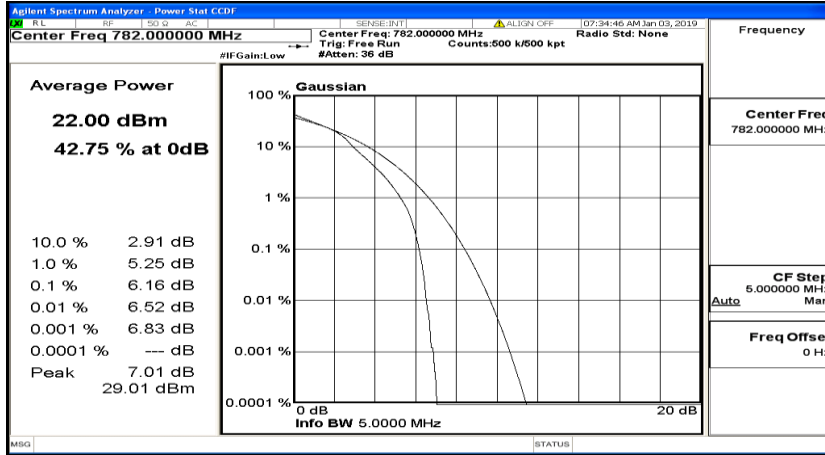
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



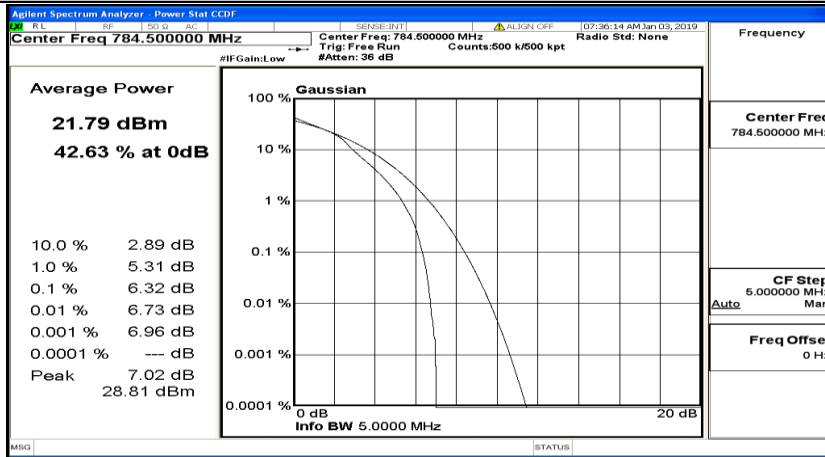
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



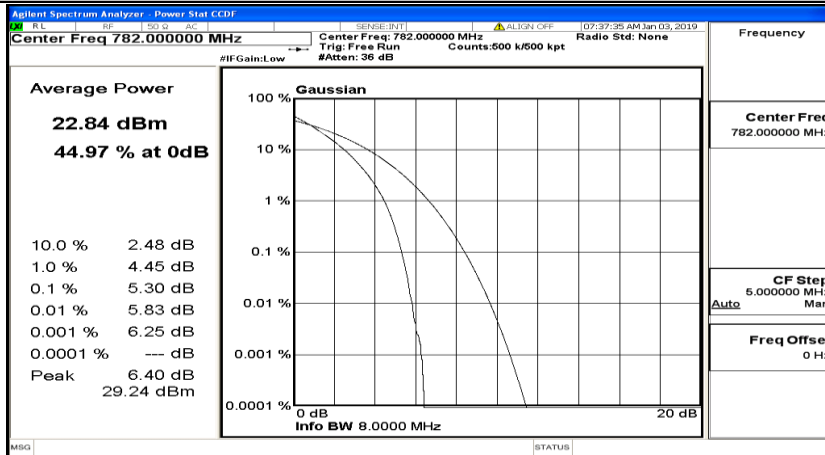
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



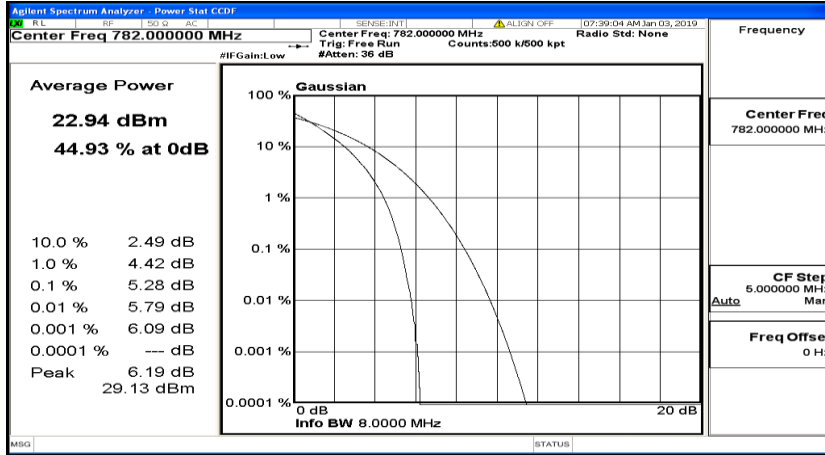
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



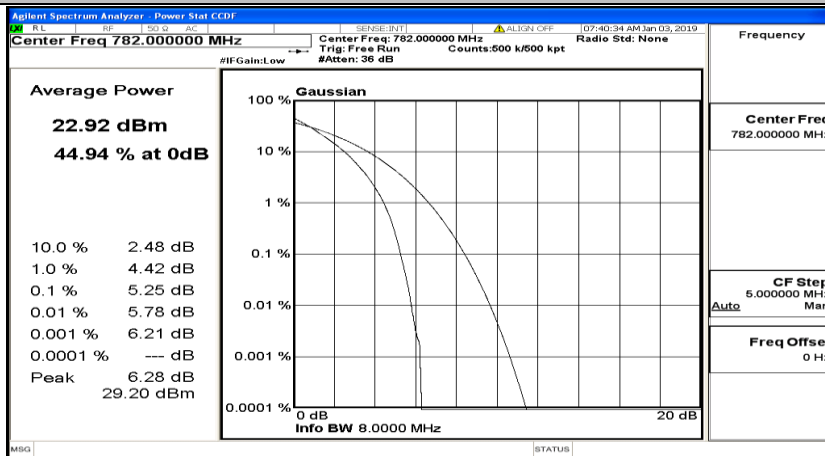
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



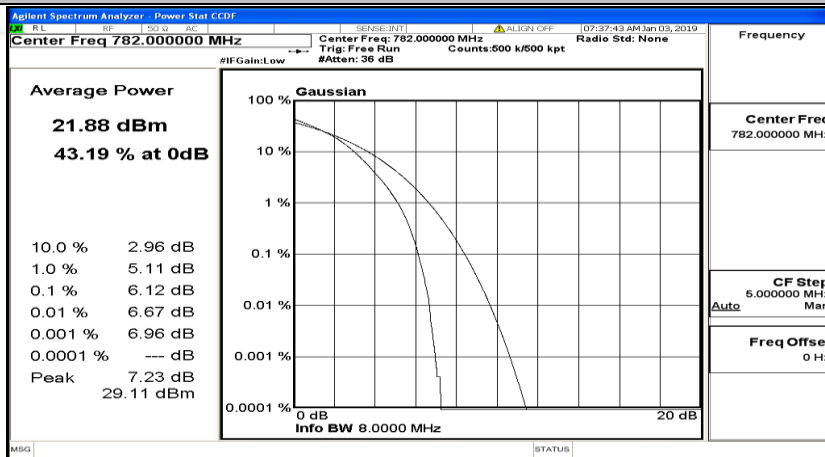
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



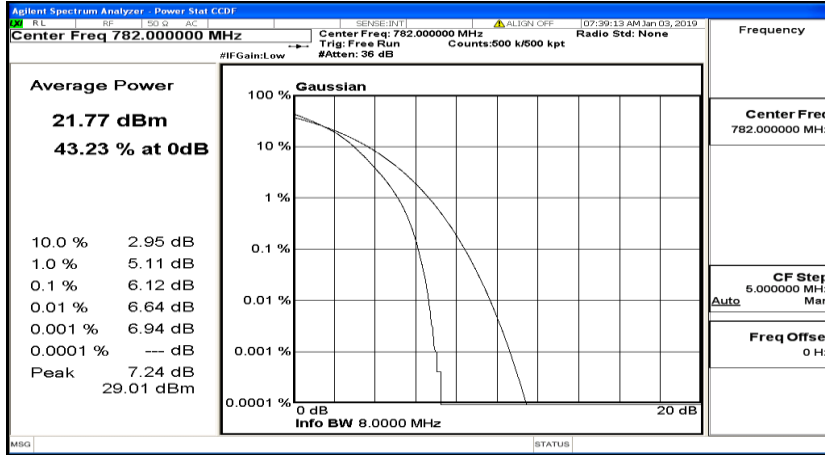
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



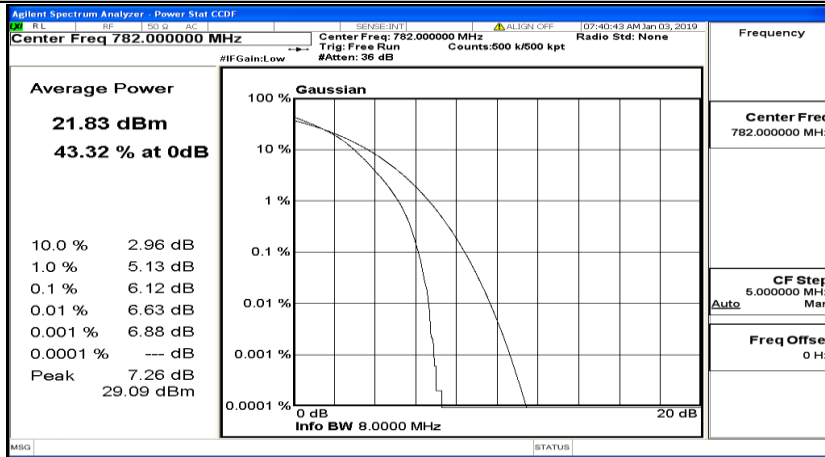
Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



Peak-to Average Ratio Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

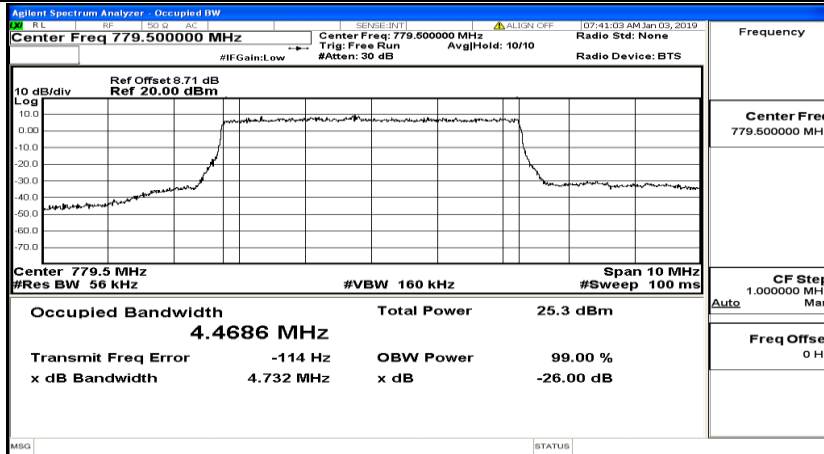


I.3 26dB Bandwidth and Occupied Bandwidth

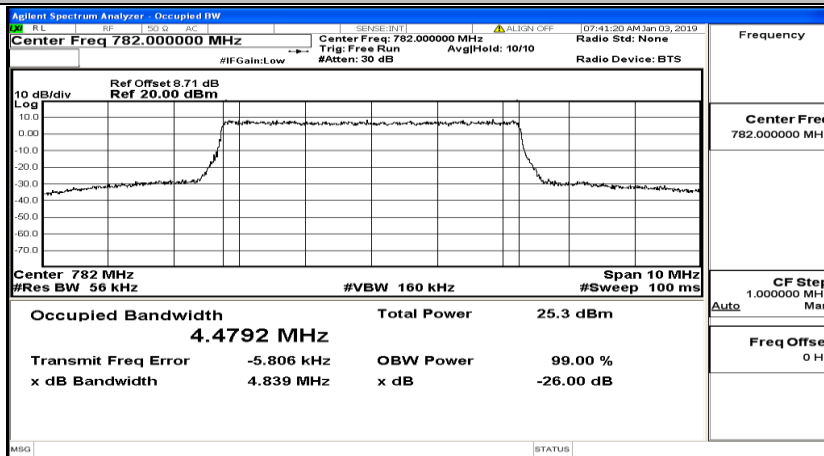
EBW & OBW Test Result (Channel Bandwidth: 5 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	4.4686	4.732	PASS
	MCH	4.4792	4.839	PASS
	HCH	4.4936	4.835	PASS
16QAM	LCH	4.4700	4.815	PASS
	MCH	4.4895	4.834	PASS
	HCH	4.4820	4.839	PASS

EBW & OBW Test Result (Channel Bandwidth: 10 MHz)				
Modulation	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
QPSK	LCH	8.9258	9.484	PASS
	MCH	8.9231	9.474	PASS
	HCH	8.9245	9.405	PASS
16QAM	LCH	8.9245	9.404	PASS
	MCH	8.9218	9.447	PASS
	HCH	8.9197	9.368	PASS

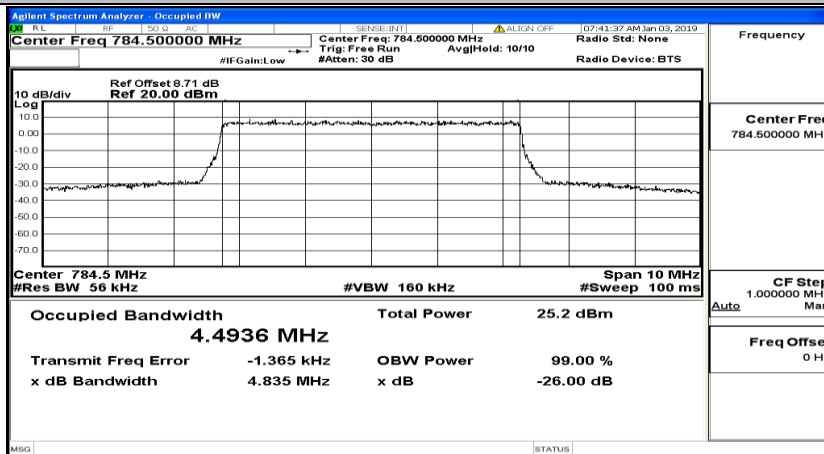
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_QPSK



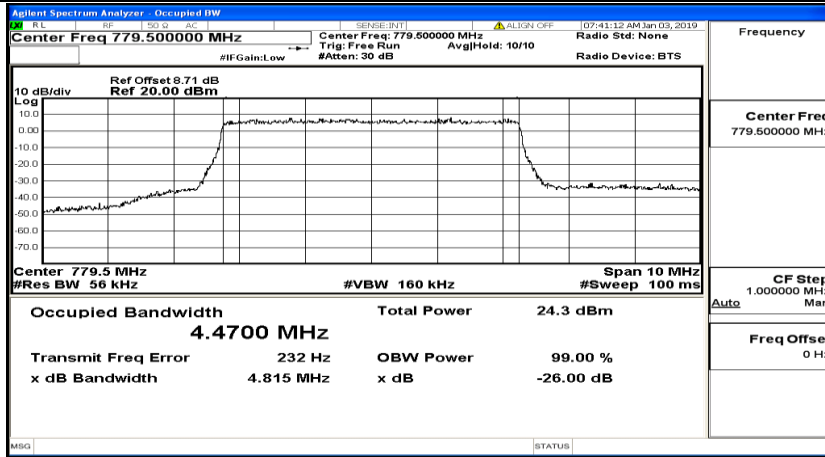
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



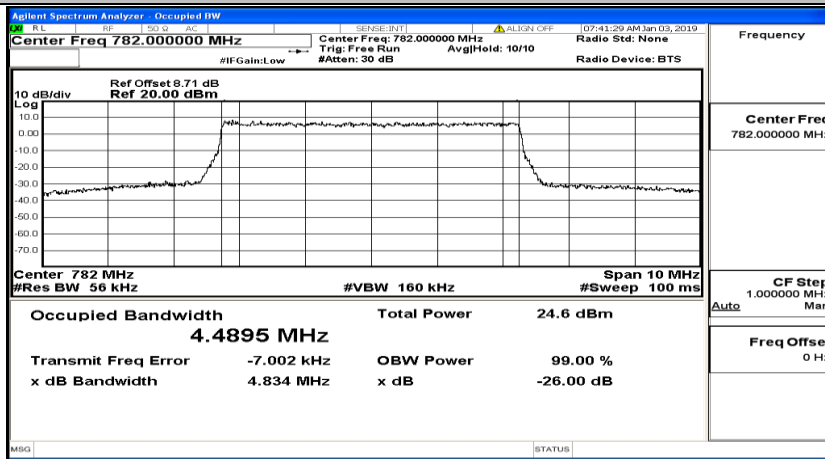
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



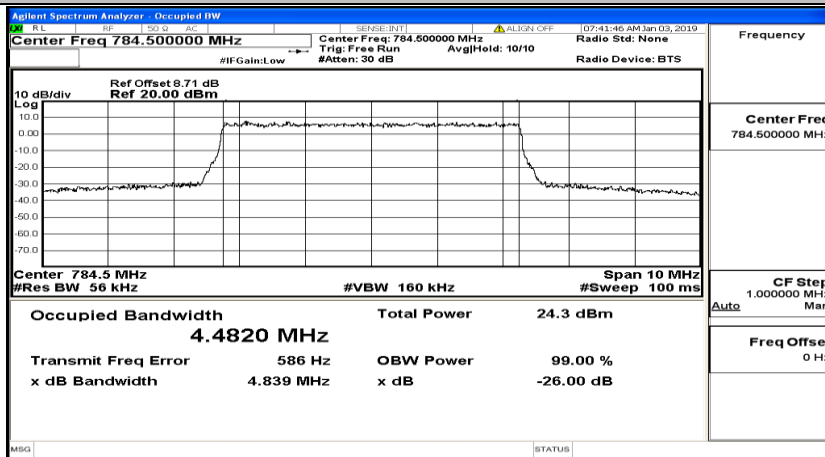
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



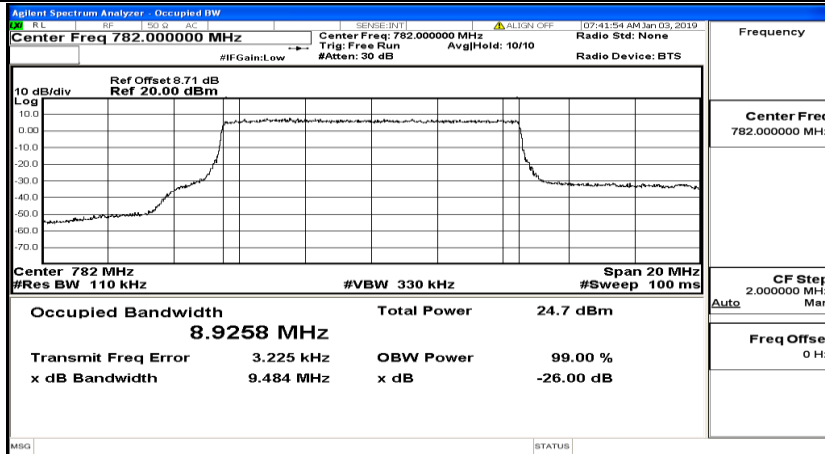
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



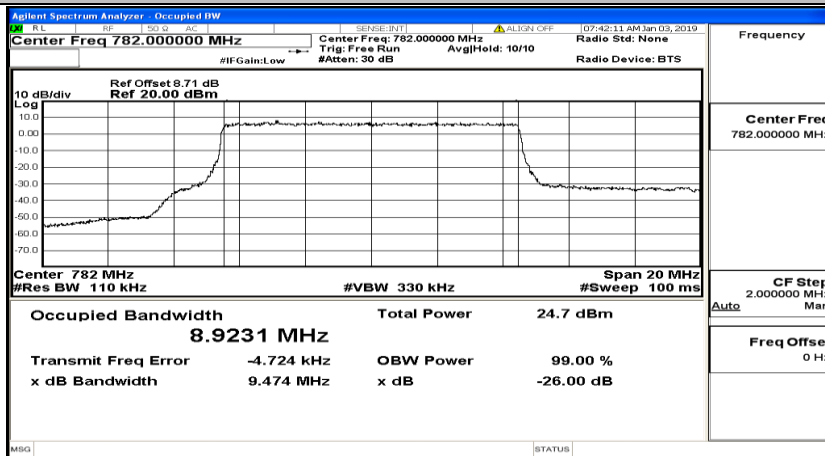
EBW & OBW Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



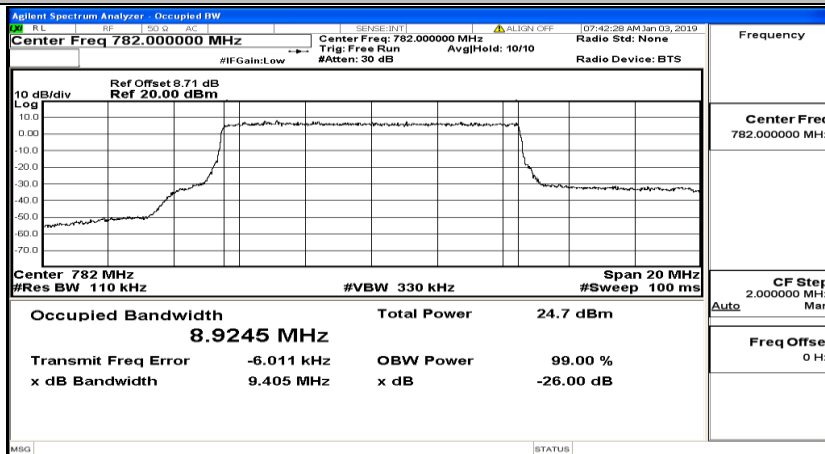
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



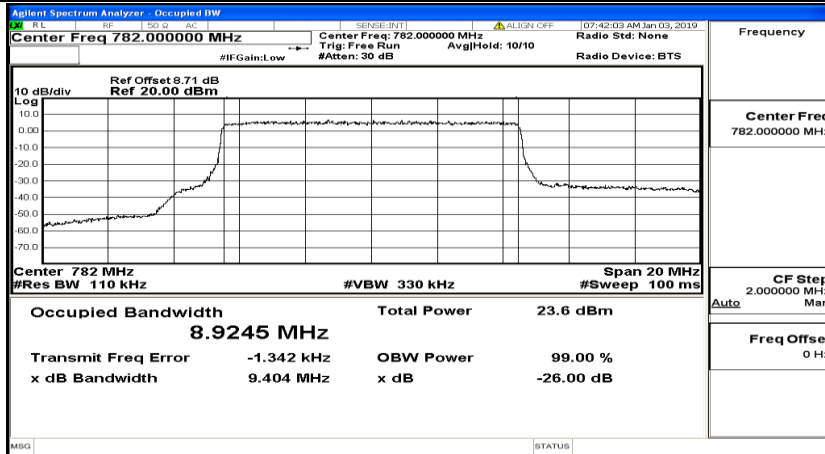
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



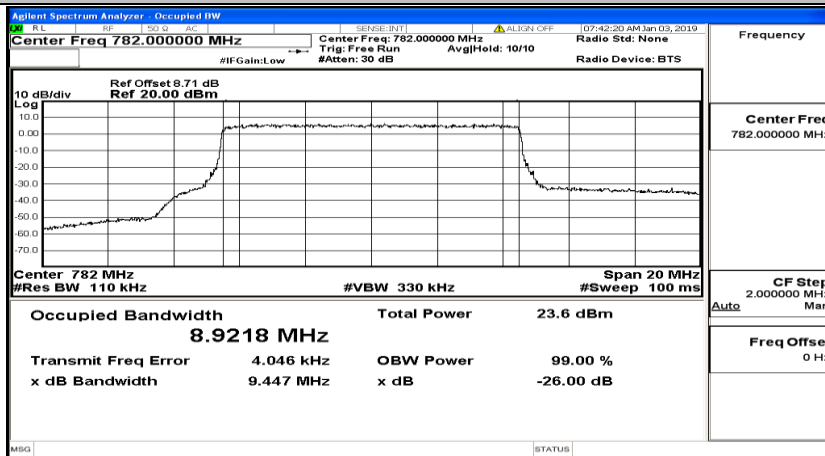
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



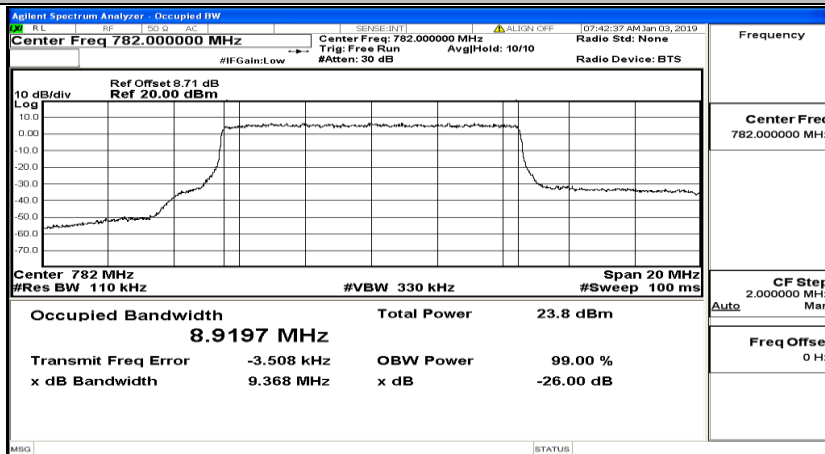
EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM

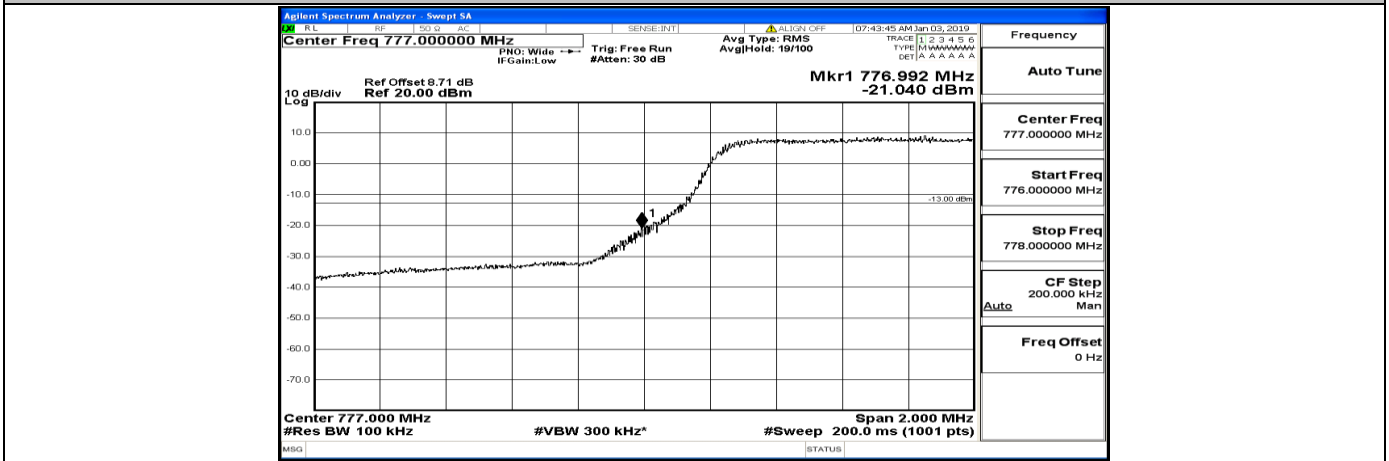


EBW & OBW Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

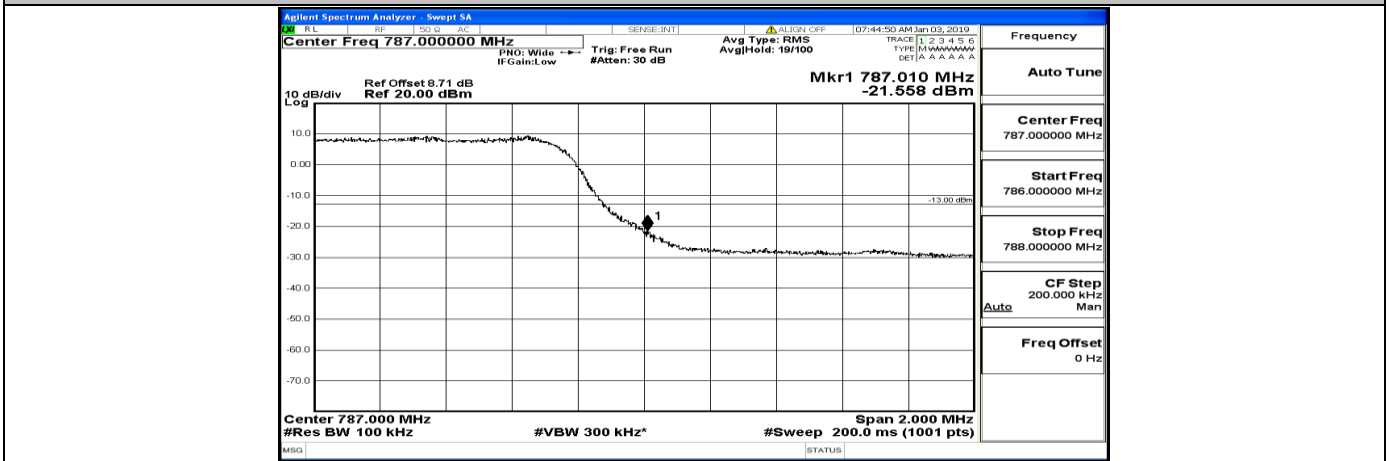


I.4 Band Edge

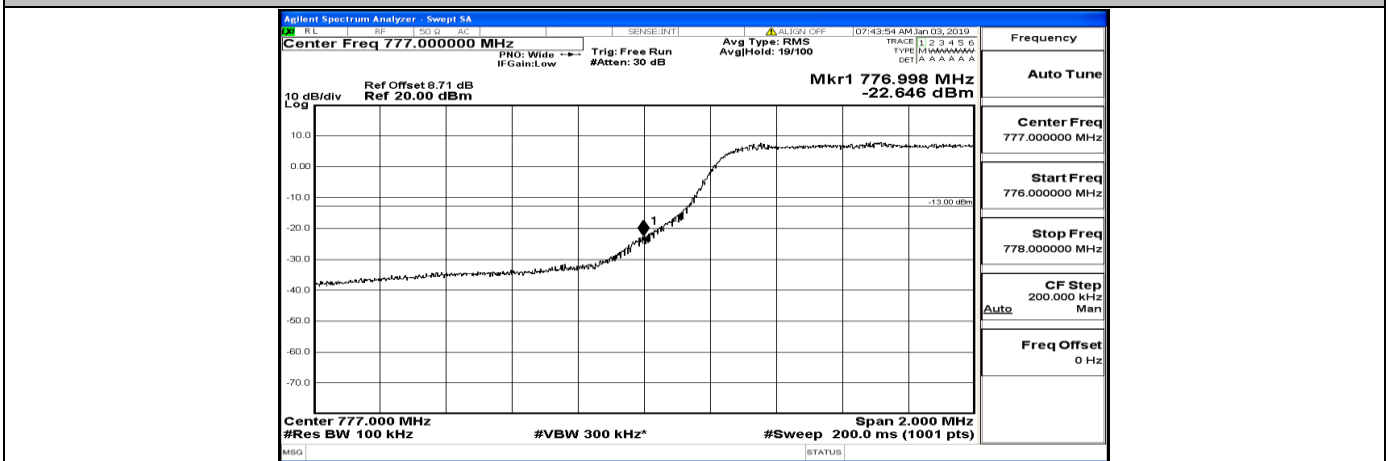
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz) LCH_QPSK



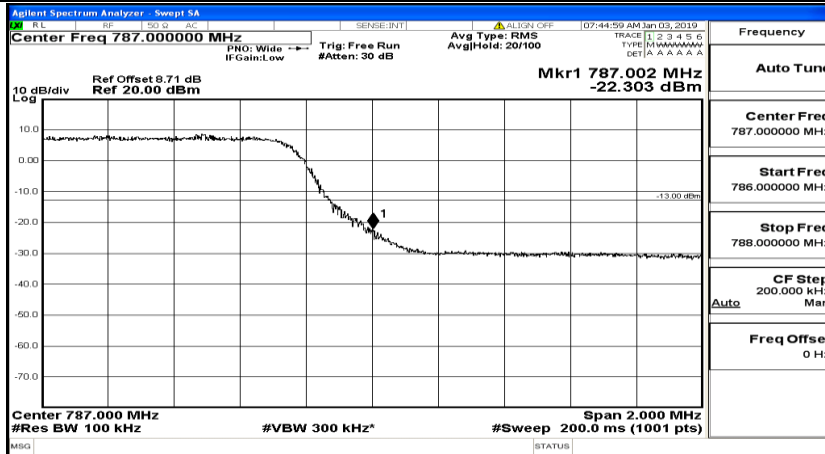
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz) HCH_QPSK



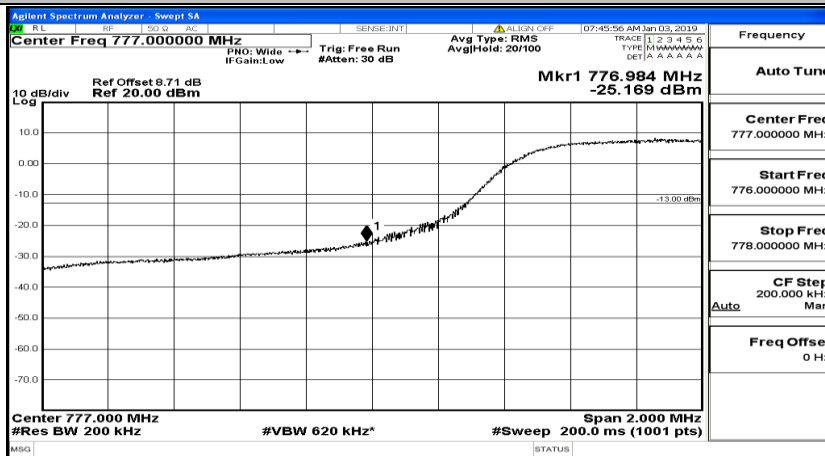
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz) LCH_16QAM



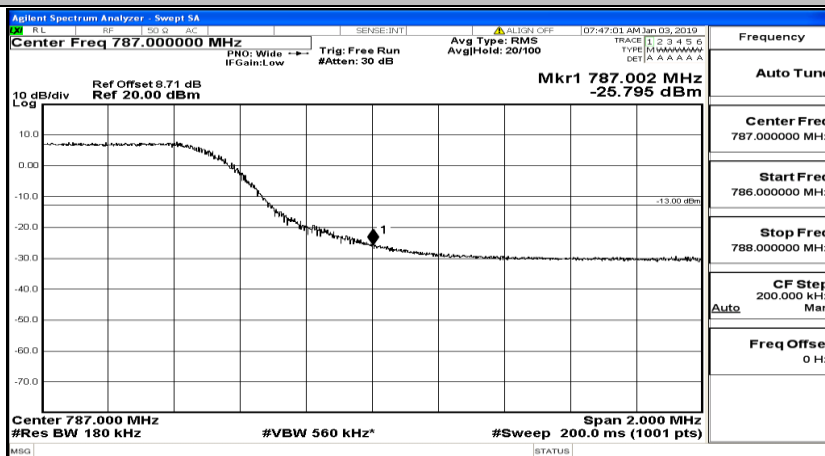
Band Edge Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



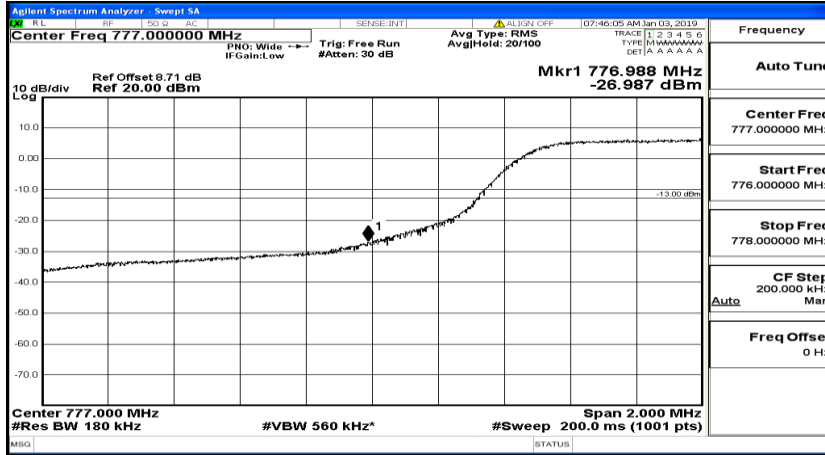
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_QPSK



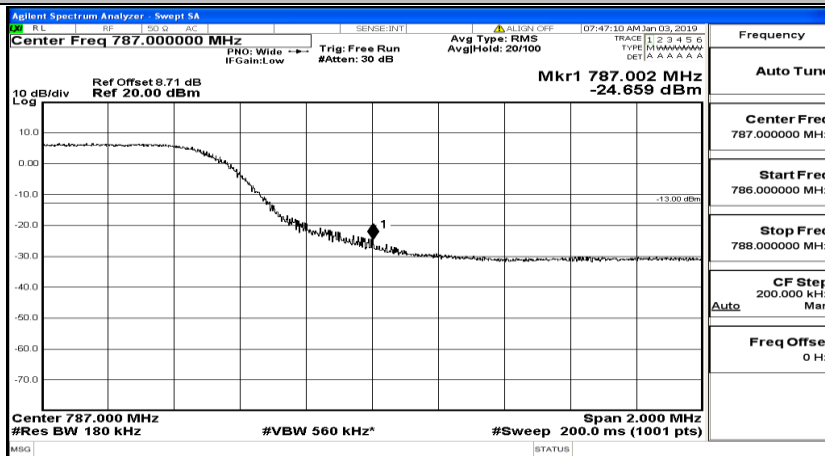
Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM

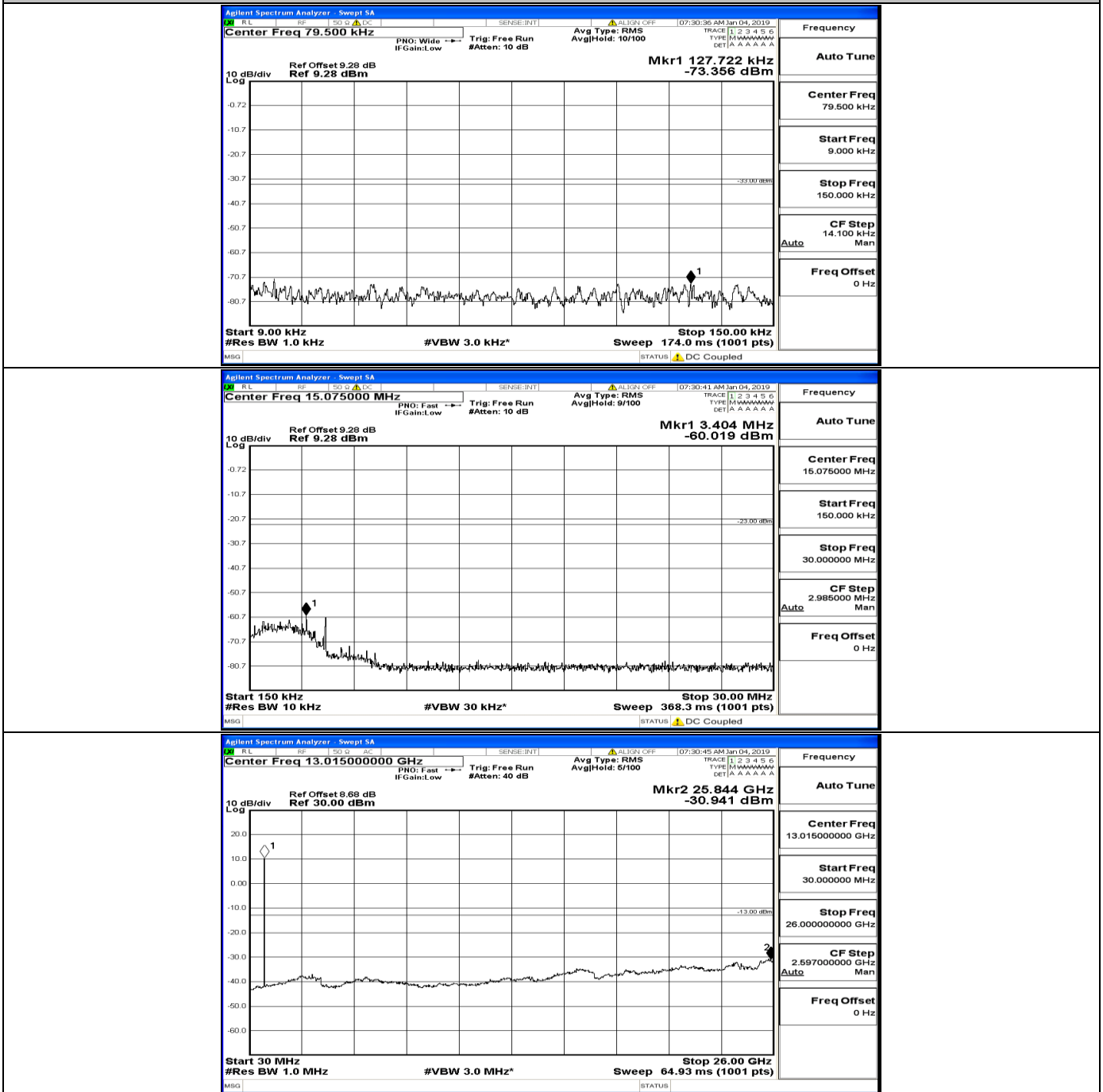


Band Edge Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM

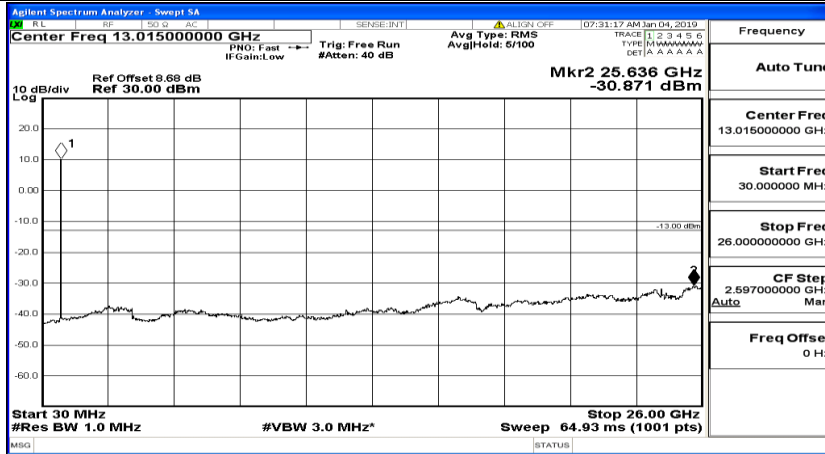
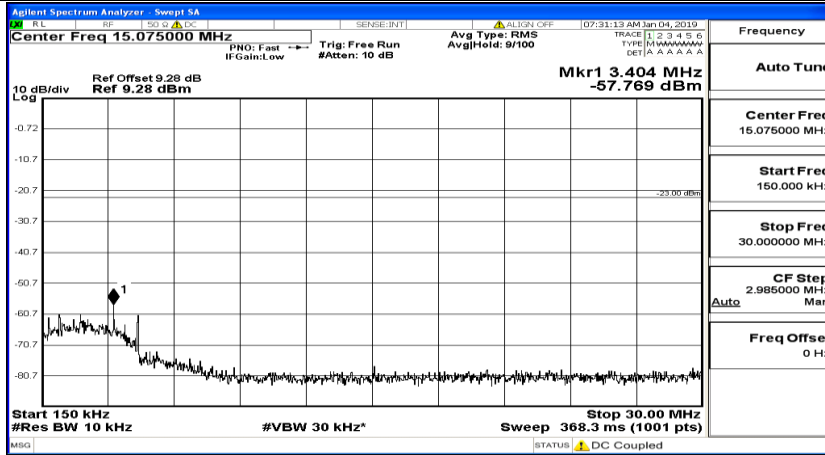
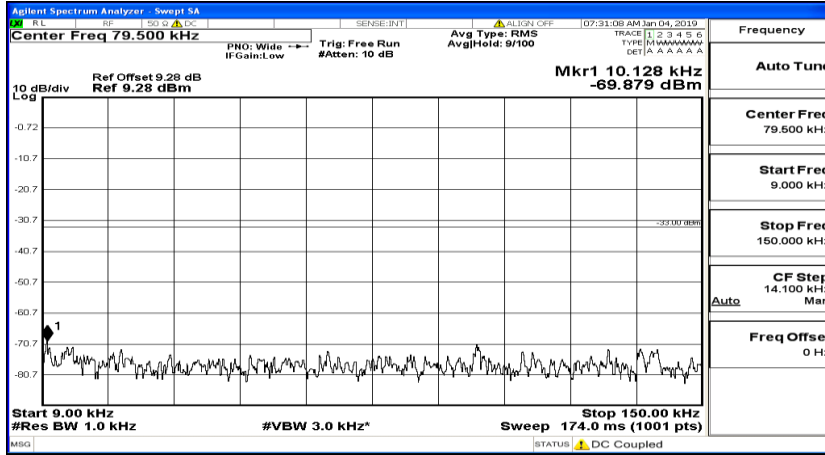


I.5 Conducted Spurious Emission

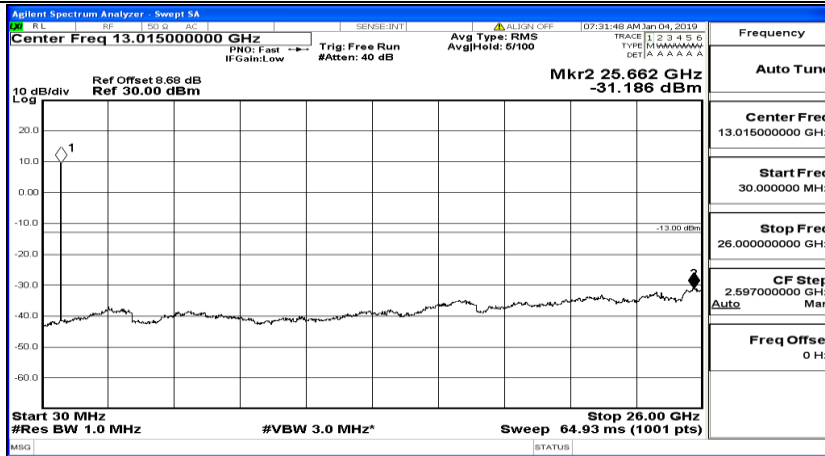
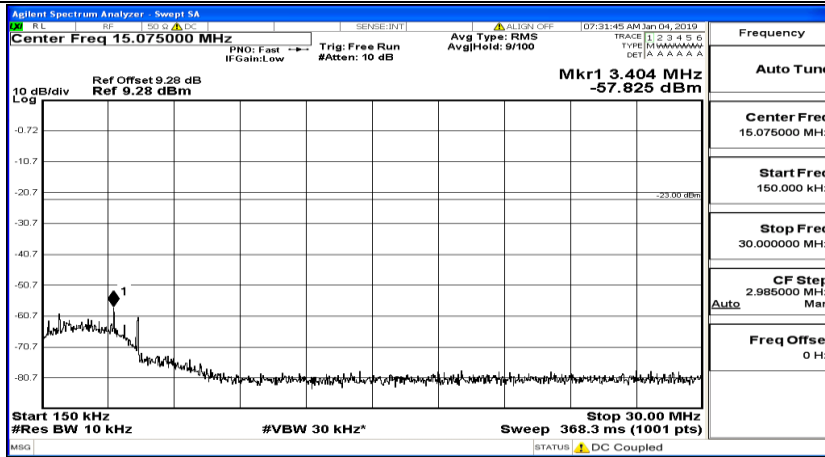
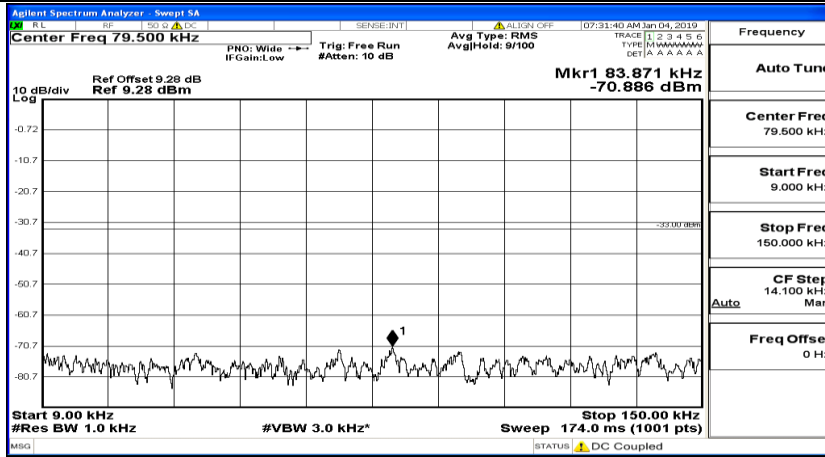
CSE Test Graph(s) (Channel Bandwidth: 5 MHz) LCH_QPSK



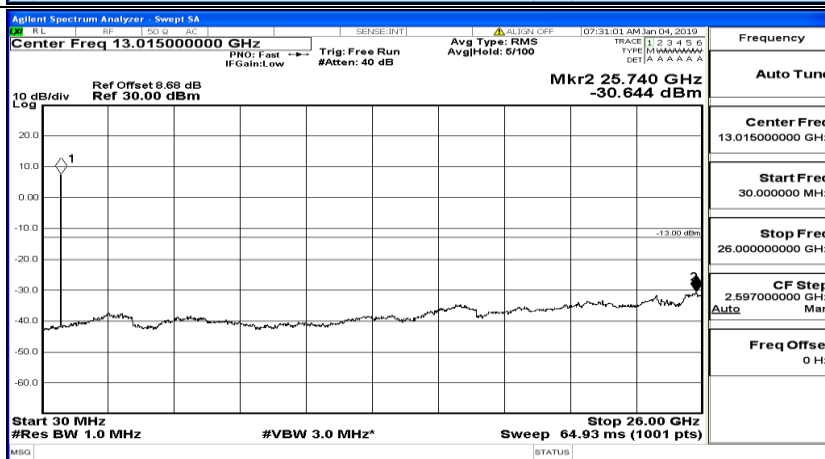
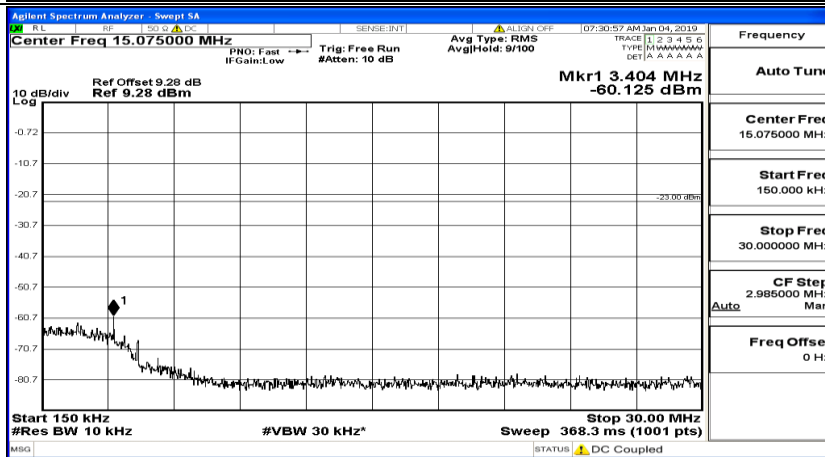
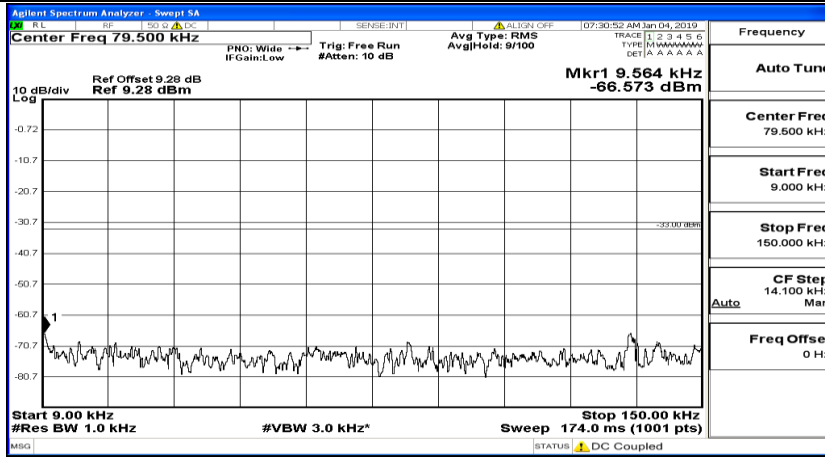
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_QPSK



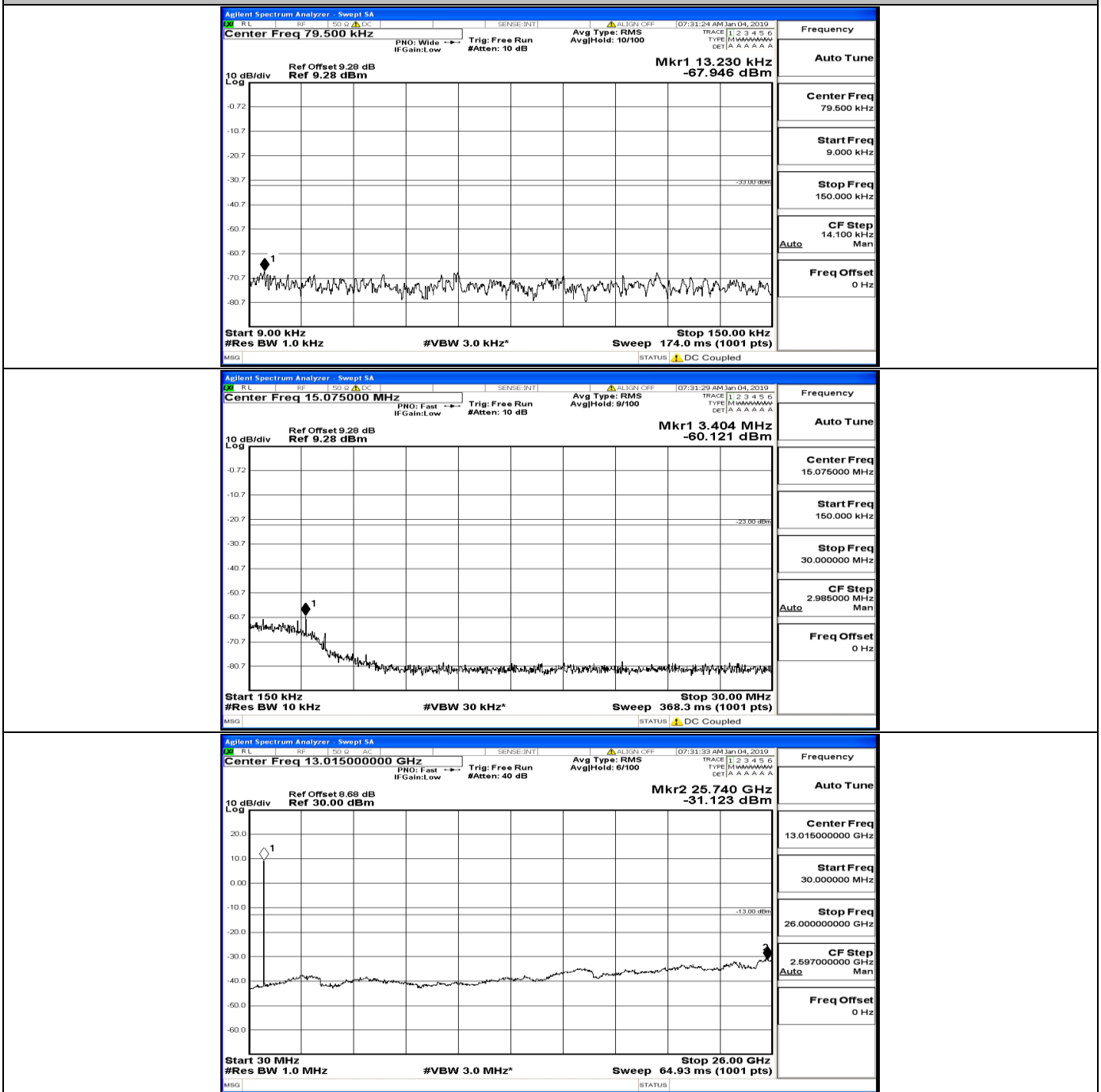
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_QPSK



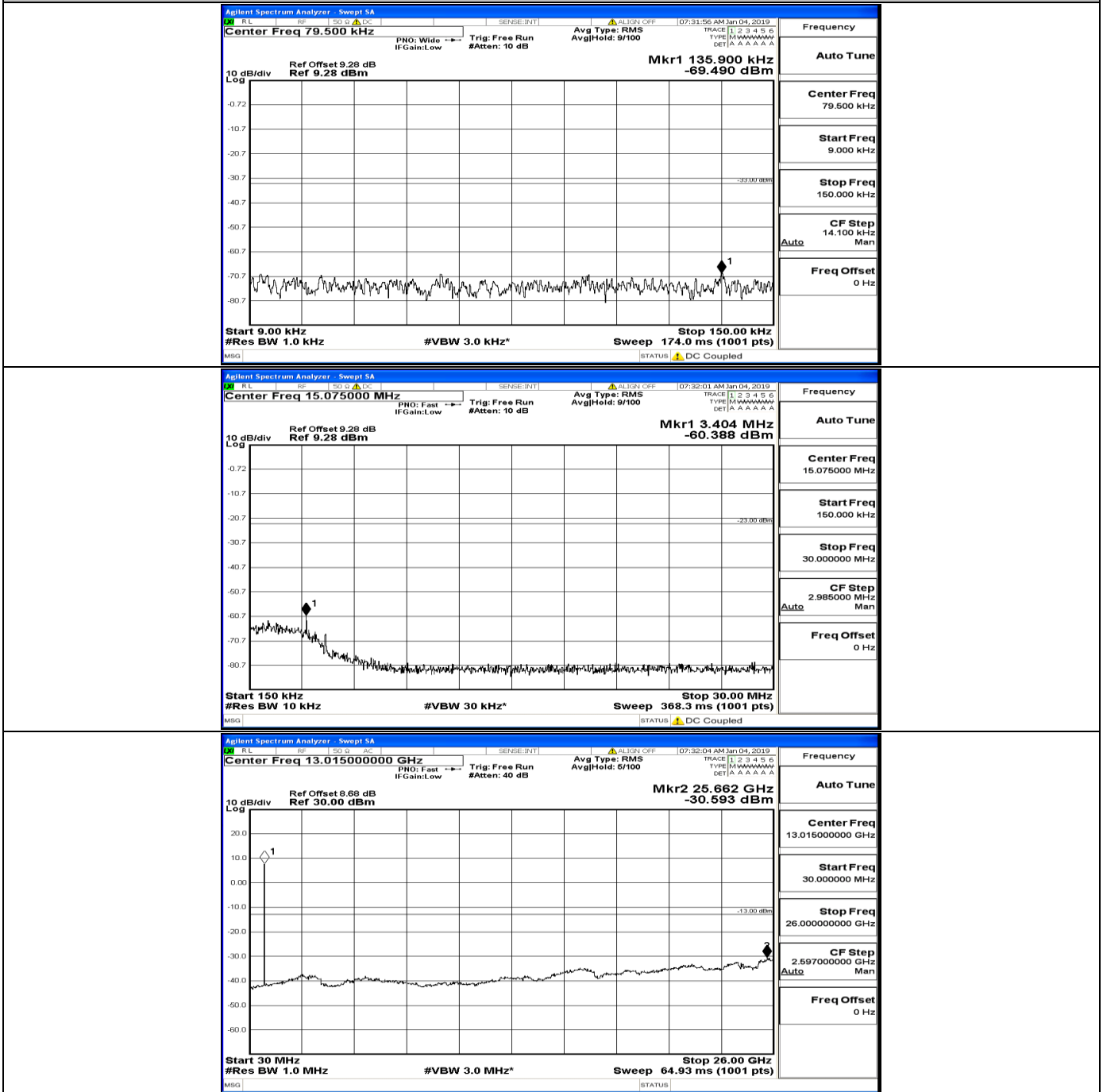
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_LCH_16QAM



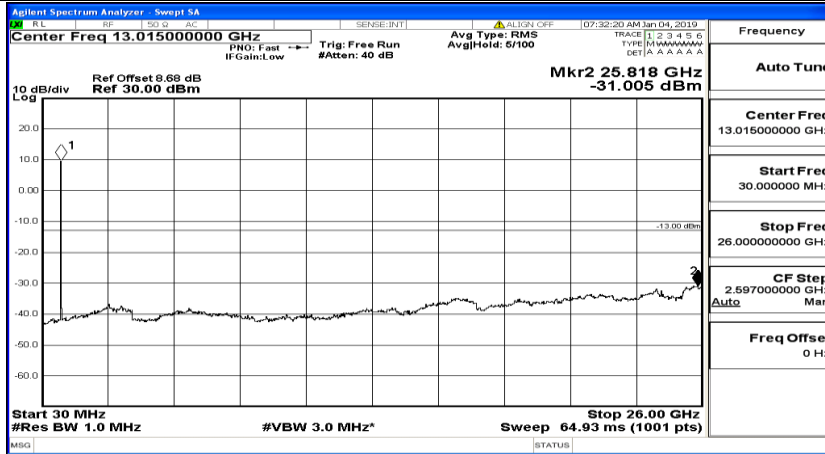
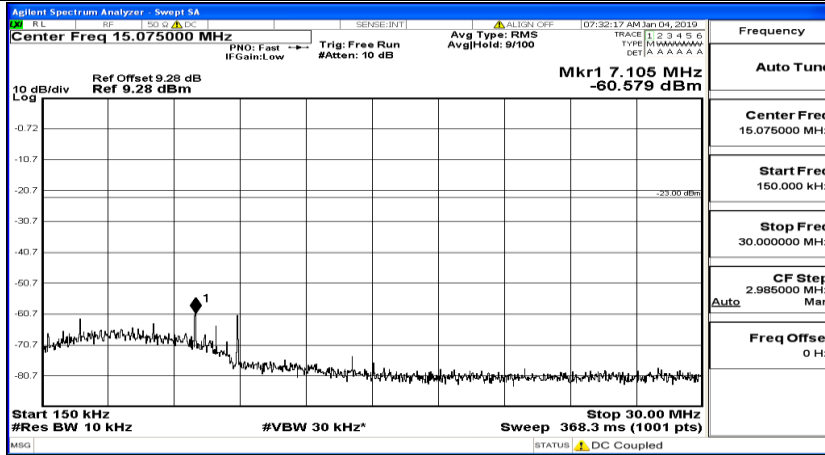
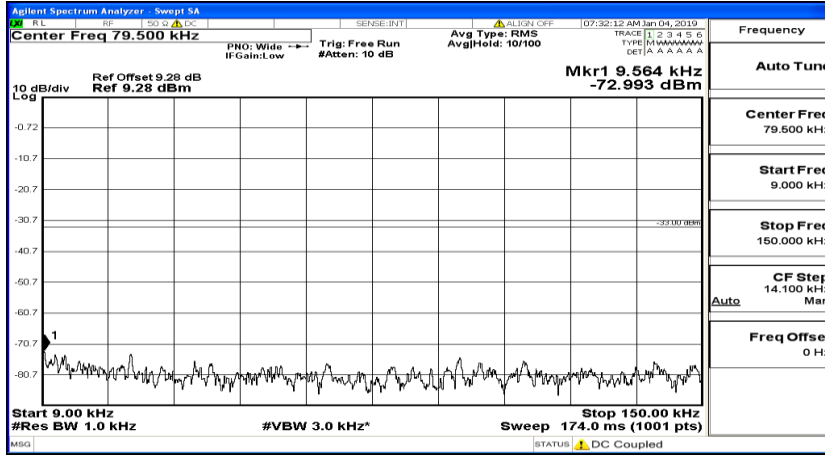
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_MCH_16QAM



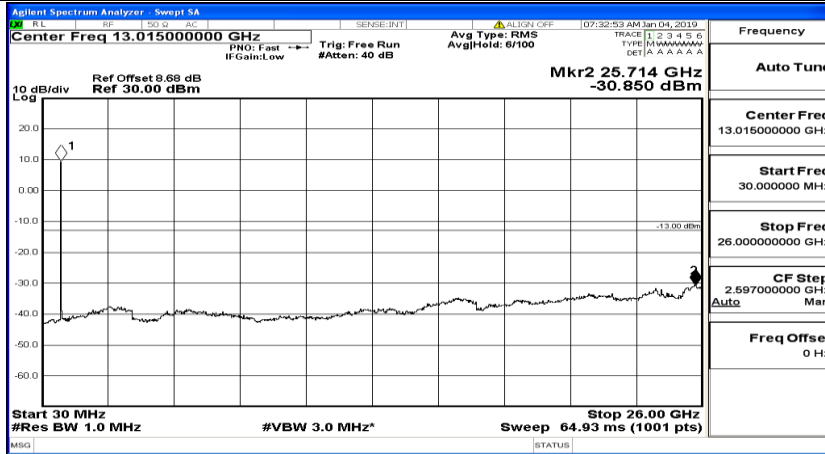
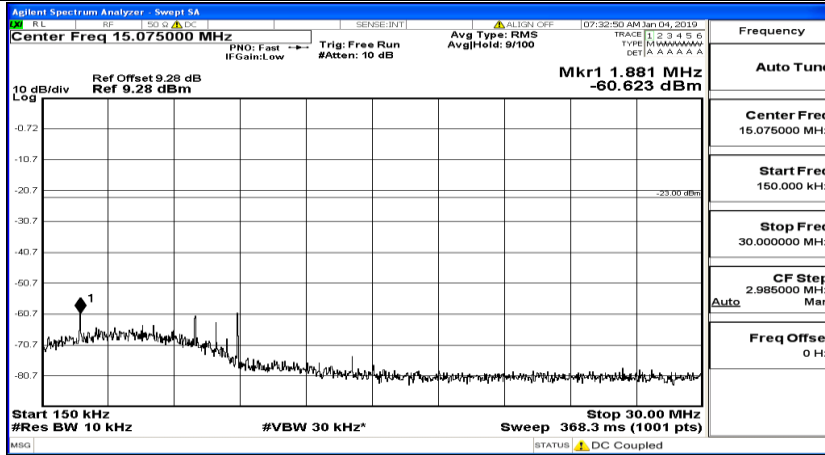
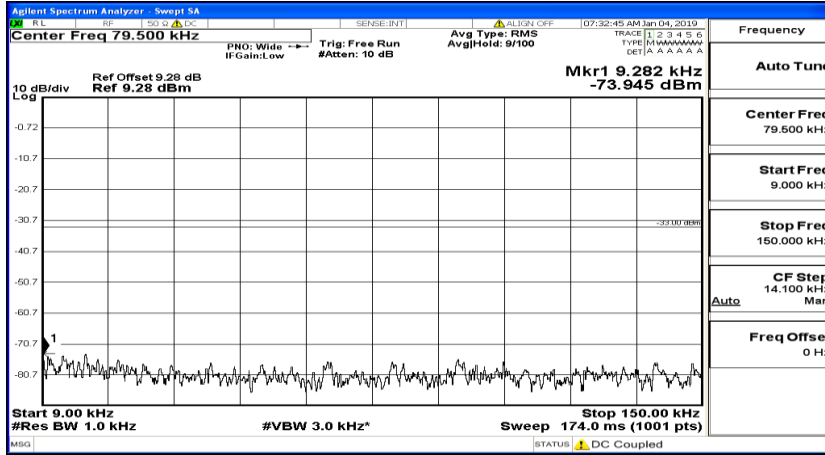
CSE Test Graph(s) (Channel Bandwidth: 5 MHz)_HCH_16QAM



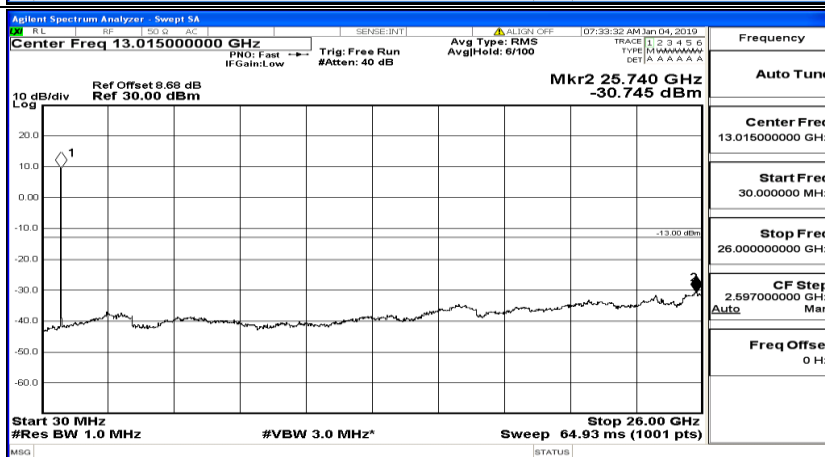
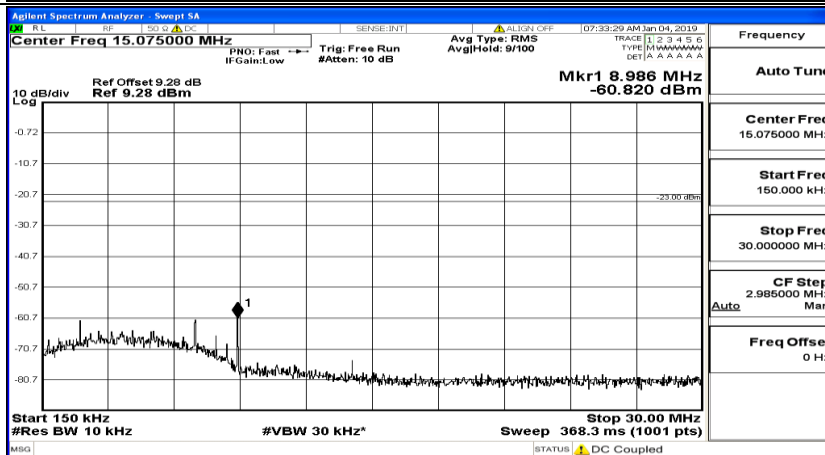
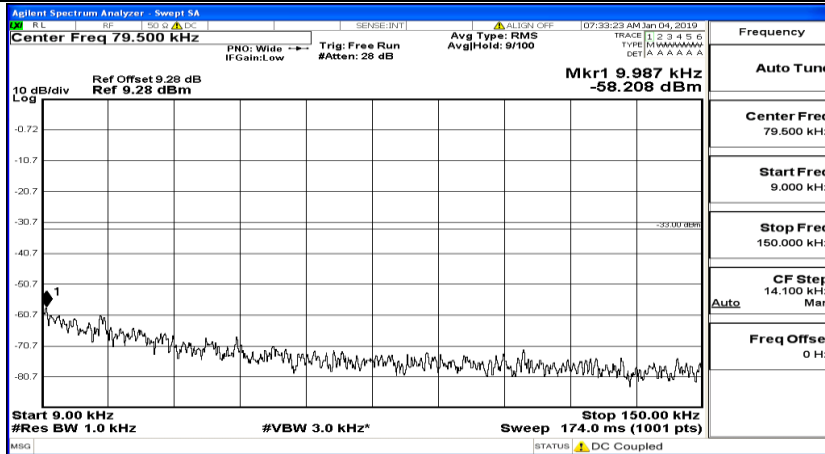
CSE Test Graph(s) (Channel Bandwidth: 10 MHz) LCH_QPSK



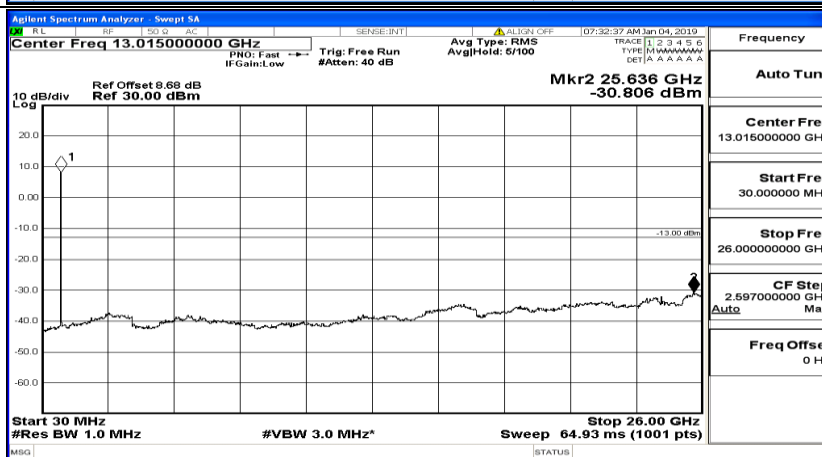
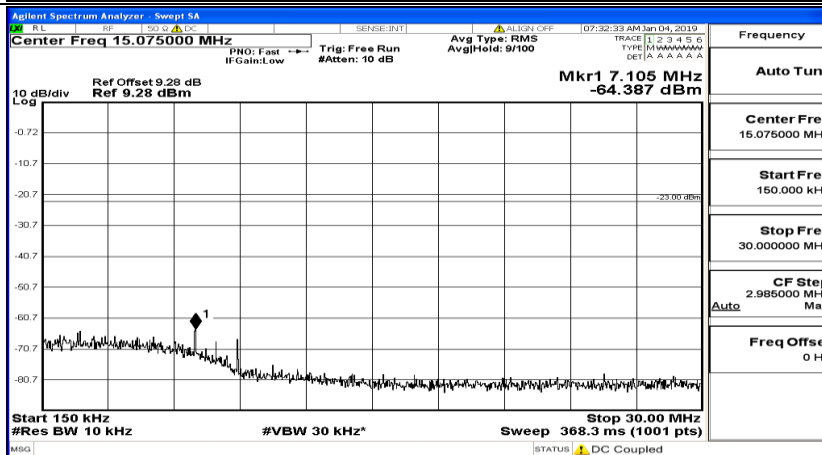
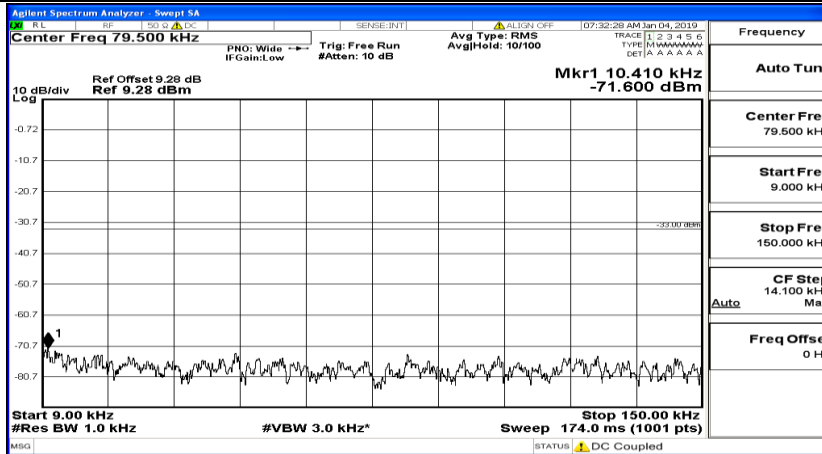
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_QPSK



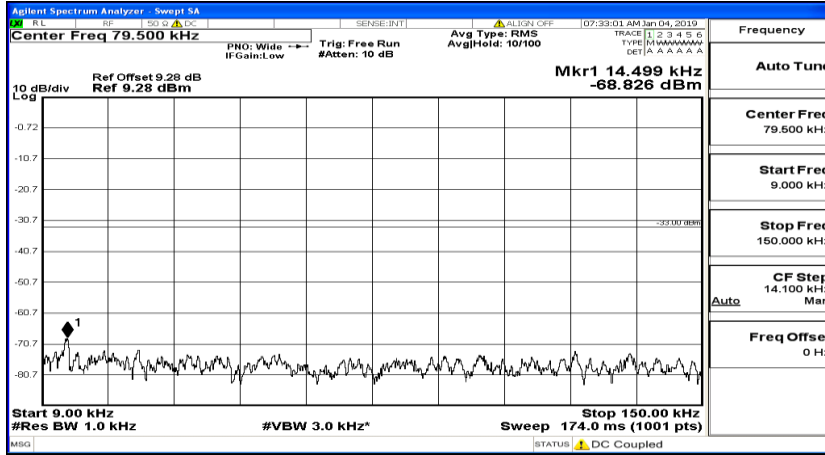
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_QPSK



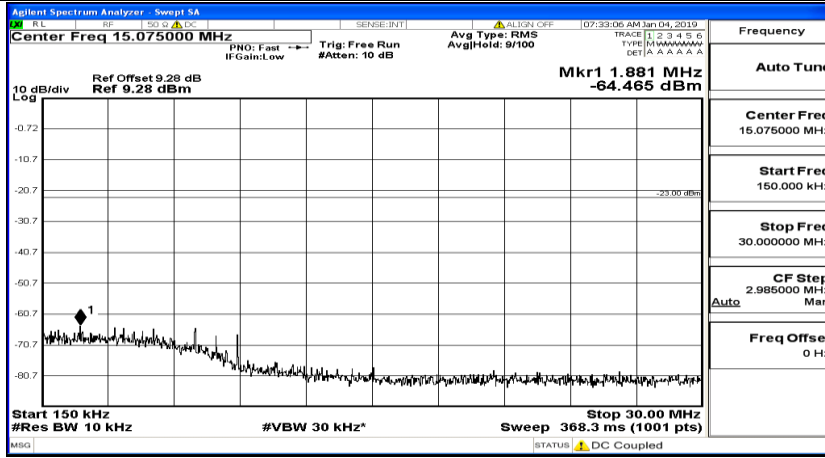
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_LCH_16QAM



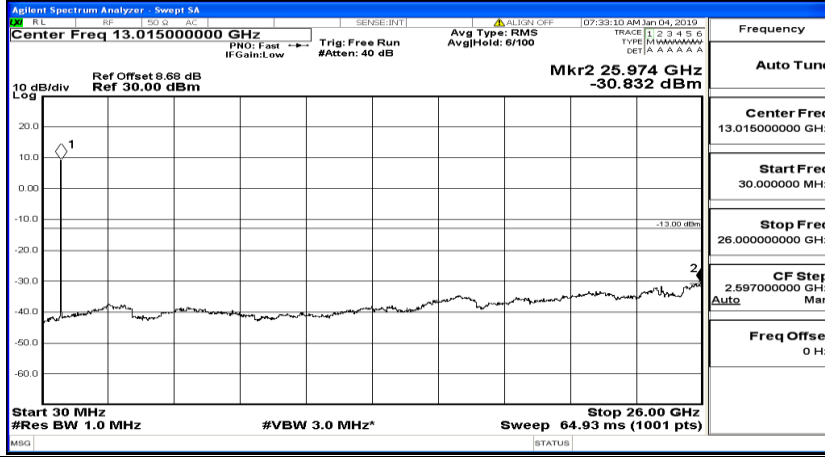
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_MCH_16QAM



Frequency
Auto Tune
Center Freq 79.500 kHz
Start Freq 9.000 kHz
Stop Freq 150.000 kHz
CF Step 14.100 kHz Man
Freq Offset 0 Hz

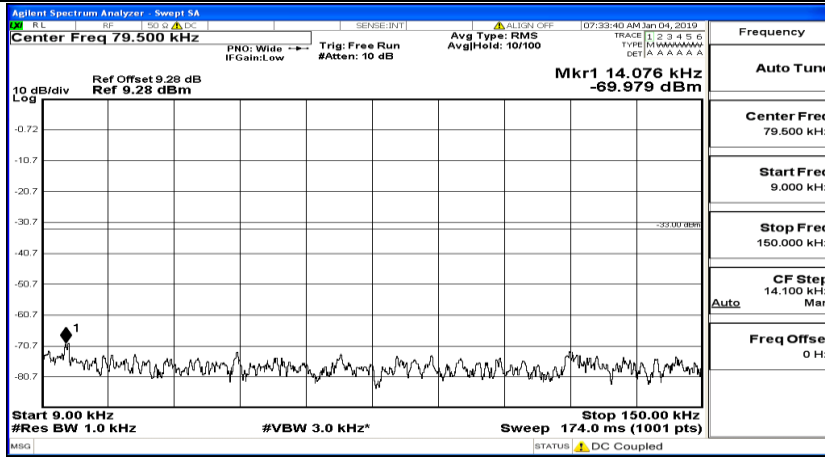


Frequency
Auto Tune
Center Freq 15.075000 MHz
Start Freq 150.000 kHz
Stop Freq 30.000000 MHz
CF Step 2.985000 MHz Man
Freq Offset 0 Hz

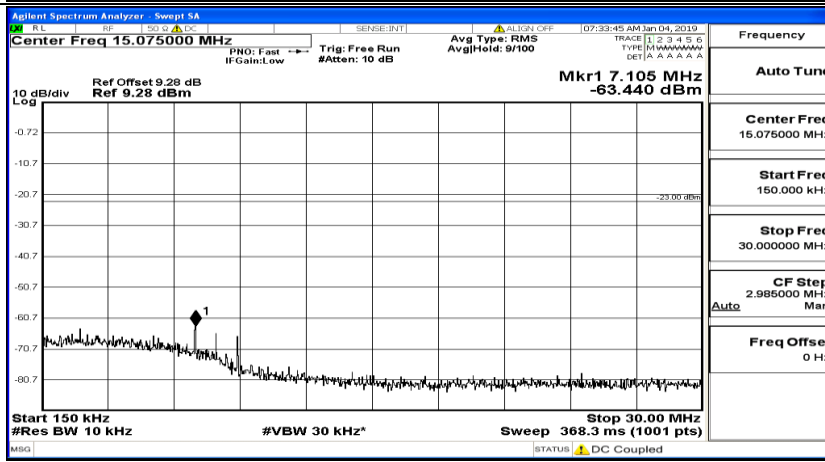


Frequency
Auto Tune
Center Freq 13.015000000 GHz
Start Freq 30.000000 MHz
Stop Freq 26.000000000 GHz
CF Step 2.597000000 GHz Man
Freq Offset 0 Hz

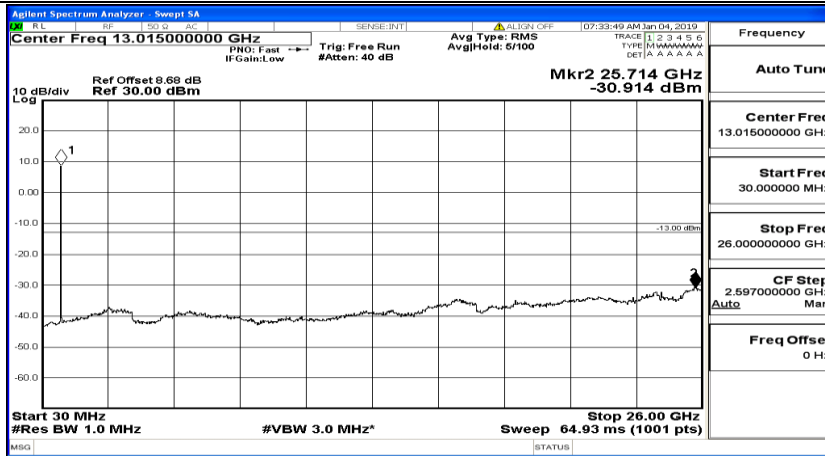
CSE Test Graph(s) (Channel Bandwidth: 10 MHz)_HCH_16QAM



Frequency
Auto Tune
Center Freq 79.500 kHz
Start Freq 9.000 kHz
Stop Freq 150.000 kHz
CF Step 14.100 kHz Man
Freq Offset 0 Hz



Frequency
Auto Tune
Center Freq 15.075000 MHz
Start Freq 150.000 kHz
Stop Freq 30.000000 MHz
CF Step 2.985000 MHz Man
Freq Offset 0 Hz



Frequency
Auto Tune
Center Freq 13.01500000 GHz
Start Freq 30.000000 MHz
Stop Freq 26.00000000 GHz
CF Step 2.597000000 GHz Man
Freq Offset 0 Hz